

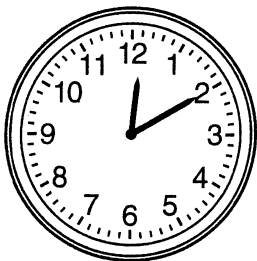
Name _____

Telling Time

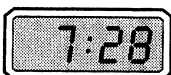
P 4-1

Write the time shown on each clock in two ways.

1.

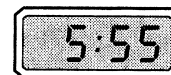


2.



3. Jessica has a piano lesson on Saturday at 2:00. Is it A.M. or P.M.?

4. **Reasoning** The digits displayed on this clock are all the same number. List all of the times when this is true.



5. **Estimation** The time is 2:57 P.M. About what time will it be in an hour and a half?

Test Prep

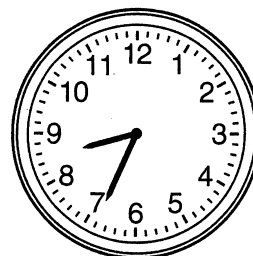
6. Which time is shown on the clock?

A. 8:24

B. 8:34

C. 8:44

D. 8:54



7. **Writing in Math** List two events that could happen in the A.M. and two events that could happen in the P.M.

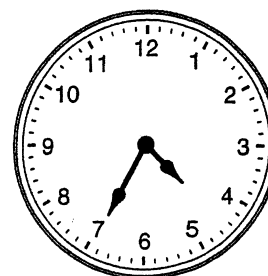
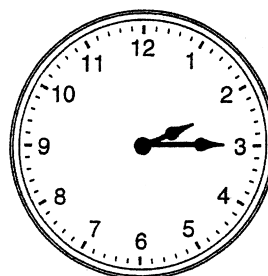
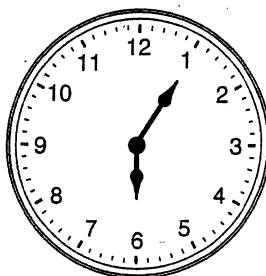
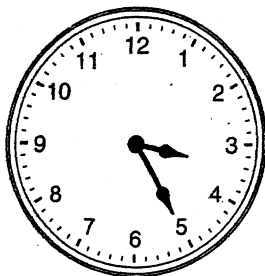
Name _____

Minute by Minute

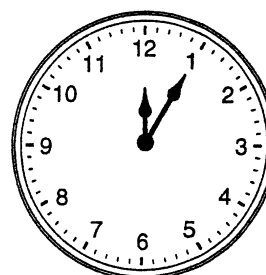
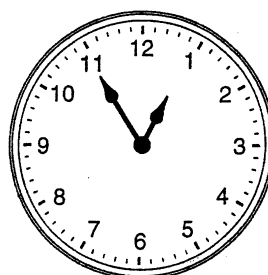
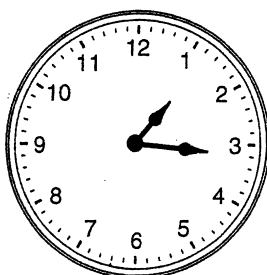
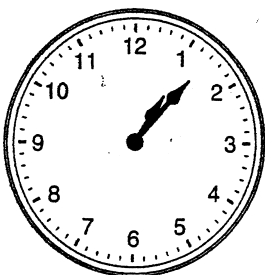
E 4-1
VISUAL THINKING

Examine the clocks in each group. Write the times shown in order from earliest to latest. Assume that all the times shown are P.M.

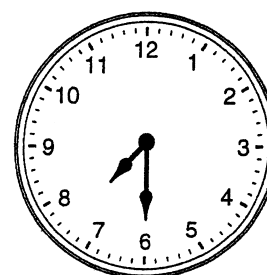
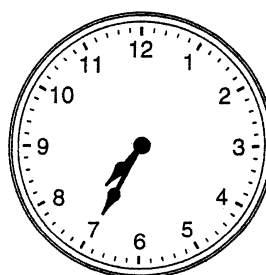
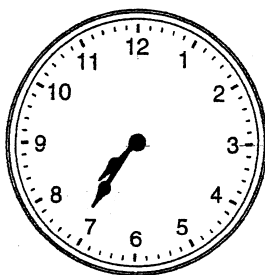
1.



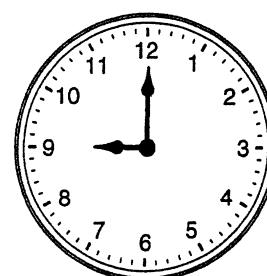
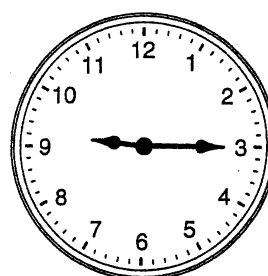
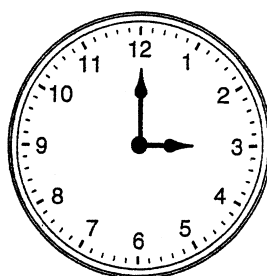
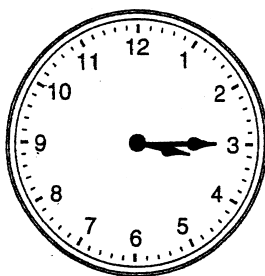
2.



3.



4.



Units of Time

R 4-2

You can use the information in the table to compare different amounts of time. For example:

Which is longer, 3 years or 40 months?

According to the table,
1 year = 12 months.

$$\begin{array}{r} 1 \text{ year} = 12 \text{ months} \\ 3 \text{ years} = 36 \text{ months} \end{array} \quad \begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$$

40 months > 36 months
40 months > 3 years

So 40 months is longer
than 3 years.

Units of Time	
1 minute	= 60 seconds
1 hour	= 60 minutes
1 day	= 24 hours
1 week	= 7 days
1 month	= about 4 weeks
1 year	= 52 weeks
1 year	= 12 months
1 year	= 365 days
1 leap year	= 366 days
1 decade	= 10 years
1 century	= 100 years
1 millennium	= 1,000 years

Write <, >, or = for each .

1. 1 year 350 days

2. 25 months 2 years

3. 20 decades 2 centuries

4. 720 days 2 years

5. 8 decades 1 century

6. 72 hours 3 days

7. 240 minutes 3 hours

8. 3 years 120 months

9. **Number Sense** How many hours are in 2 days? _____

10. A score is 20 years. How many years is 5 score? _____

11. Dave's goldfish lived for 2 years, 8 months.
Chris's goldfish lived for 35 months. Whose
goldfish lived longer? _____

12. Tree A lived for 6 decades and 5 years. Tree B
lived for 58 years. Which tree lived longer? _____

Name _____

Units of Time

P 4-2

Write $>$, $<$, or $=$ for each \bigcirc .

1. 48 hours \bigcirc 4 days

2. 1 year \bigcirc 12 months

3. 60 minutes \bigcirc 2 hours

4. 17 days \bigcirc 2 weeks

5. 5 months \bigcirc 40 weeks

6. 1 millennium \bigcirc 10 centuries

7. 6 decades \bigcirc 1 century

8. 5 decades \bigcirc 48 years

9. Cheryl's grandparents have been married for 6 decades. How many years have they been married? _____

10. Tom was in elementary school from 1997 to 2002. How much time was that in years? _____

The Declaration of Independence was signed on July 4, 1776.
The United States celebrated the bicentennial on July 4, 1976.
How much time was that in

11. years? _____

12. decades? _____

Test Prep

13. 49 days =

A. 5 weeks

B. 6 weeks

C. 7 weeks

D. 8 weeks

14. **Writing in Math** Which is longer: 180 sec or 3 min? Explain how you decided.

Name _____

Elapsed Time

P 4-3

Find each elapsed time.

1. Start: 3:52 P.M.
Finish: 4:10 P.M.

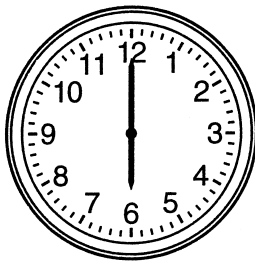
2. Start: 11:35 A.M.
Finish: 12:25 P.M.

3. Start: 3:15 P.M.
Finish: 5:00 P.M.

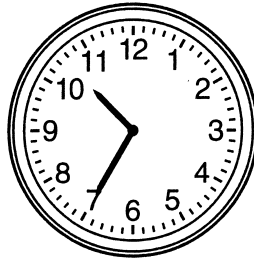
4. Start: 8:20 A.M.
Finish: 2:35 P.M.

Write the time each clock will show in 30 min.

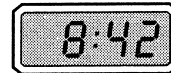
5.



6.



7.



8. **Number Sense** Max says that the elapsed time from 11:55 A.M. to 1:10 P.M. is more than an hour and a half. Is he correct? Explain.

Test Prep

9. Gary began eating lunch at 12:17 P.M. and finished at 1:01 P.M. Which is the elapsed time?

A. 41 min

B. 42 min

C. 43 min

D. 44 min

10. **Writing in Math** Ella went in the swimming pool at 1:20 P.M. She swam for 1 hr and 20 min. What time was it when she finished swimming?

Name _____

Elapsed Time

PS 4-3

Symphonies Different pieces of music last different lengths of time. Find the elapsed times of the pieces of classical music in Exercises 1–4.

1. Beethoven's Ninth Symphony started at 7:00 P.M. and finished at 8:05 P.M.
How long was the performance? _____
2. The first movement of Mahler's Third Symphony started at 8:20 P.M. and finished at 8:52 P.M. How long was the performance? _____
3. A short symphony by Mozart could be played between 11:47 P.M. and midnight. How long is the symphony? _____
4. Richard Wagner wrote a long piece of music called the *Ring Cycle*. If it started at 5:00 A.M., it would not be finished until 8:00 P.M. that night. How many hours long is the *Ring Cycle*? _____

Cooking The Smythes cooked their Thanksgiving turkey from 12:35 P.M. to 3:20 P.M. Then they saw it was not completely cooked, so they put it back in the oven from 3:25 P.M. to 4:00 P.M.

5. For how long was the turkey originally in the oven?

6. How long did it take the turkey to cook completely? _____
7. **Writing in Math** Janet and Judy were going to the movies. Janet showed up at Judy's door at 7:45 P.M. "You're 90 min late!" exclaimed Judy. Explain how you can determine at what time Janet was supposed to meet Judy.

Name _____

Let Me Check My Calendar

E 4-5
REASONING

Larry is a very busy man. He often has to meet with salespeople in his department, as well as attend family functions. Study his appointment calendar below. Then tell whether each of Larry's statements is *True* or *False*.

July

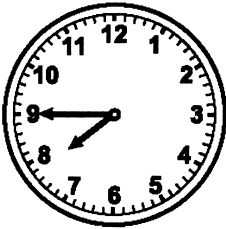
S	M	T	W	T	F	S
1	2 Managers meeting 3-5	3	4	5 Presentation 1-3	6	7 Swimming party
8 Baseball game 2-5	9	10	11 Dentist 2:00	12	13 Workshop 8-4	14 Pick out furniture 1:00
15 BBQ NOON	16 Business trip to Denver Leave 6 A.M.	17	18 Home 8 P.M.	19	20 Sox game 7:15	21 Recital 12:00
22 29	23 30	24 Shop for gift after work	25	26	27 Day off— Mona's birthday	28

- "I can meet with you about the new program on Tuesday the 10th, at around 2:00." _____
- "I'll be home the third Tuesday in July. Let's meet then." _____
- "No, I can't meet on the first Monday of the month. I have a big meeting." _____
- "Can I help you set up the new swing set on the 8th at around 3:00? Sure." _____
- "You can show me the new proposal after the meeting on the last Friday in July." _____
- "I'm free every Thursday morning this month." _____

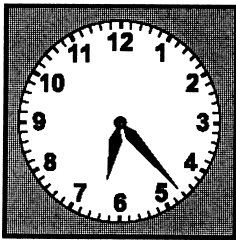
Chapter 4A Review**Multiple Choice**

Identify the letter of the choice that best completes the statement or answers the question.

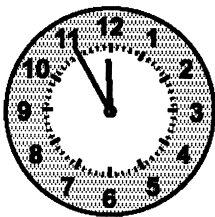
- _____ 1. Which of the following is NOT a way to write the time shown on the clock?



- a. quarter after 8
b. 7:45
c. 7 forty five
d. quarter to 8
- _____ 2. What time is shown on this clock?



- a. 23 minutes past 6
b. 23 minutes past 7
c. 30 minutes to 5
d. 23 minutes past 5
- _____ 3. In the story *Cinderella*, the fairy godmother told Cinderella to leave the ball before midnight. The clock shows the time Cinderella started running out of the ball. Which of the following is NOT a way to say the time shown?



- a. 11:55 P.M.
b. 5 minutes to midnight
c. 5 minutes after 12
d. 5 minutes to 12
- _____ 4. Which is greater than 7 months?
- a. 7 weeks
b. 120 minutes
c. 2 months
d. 1 year

- _____ 5. Which of the following is TRUE?
- a. 3 hours > 150 minutes c. 2 months = 20 weeks
b. 1 minute < 60 seconds d. 20 months > 2 years
- _____ 6. The table shows the time it took to complete several trials of an experiment.

Trial Number	1	2	3	4	5
Time	2 min.	124 sec.	157 sec.	135 sec.	143 sec.

Which trial lasted longer, 1 or 2?

Which of the following is the correct answer and explanation?

- a. Trial 1; 124 seconds is less than one minute.
b. Trial 2; 2 minutes equal 120 seconds and 120 is less than 124.
c. Trial 1; 2 minutes equal 180 seconds, and 180 is more than 124.
d. Trial 2; 2 minutes equal 60 seconds, and 60 is less than 124.
- _____ 7. About how long before the year 2000 was the Declaration of Independence?
- a. 2 decades c. 2 centuries
b. 2 years d. 2 millennia
- _____ 8.

VOYAGES OF COLUMBUS

Voyage	Left Spain	Arrived in New World	Time
1st	Aug. 3, 1492	Oct. 12, 1492	10 weeks
2nd	Sept. 25, 1493	Nov. 3, 1493	39 days
3rd	May 30, 1498	July 31, 1498	62 days
4th	May 11, 1502	June 29, 1502	49 days

Which voyage of Columbus lasted longer, the first or the second?

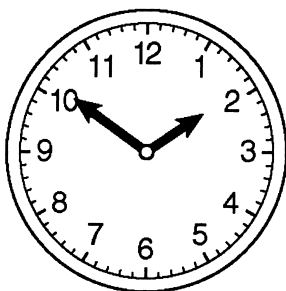
Which of the following is the correct answer and explanation?

- a. first; 10 weeks equal 40 days and 40 days is more than 39 days.
b. second; 10 weeks equal 30 days and 30 days is less than 39 days.
c. second; 39 days is more than a month and 10 weeks is more than a month.
d. first; 10 weeks equal 70 days and 70 days is more than 39 days.
- _____ 9. Find the elapsed time from 6:53 A.M. to 10:13 A.M.
- a. 2 hours and 20 minutes c. 3 hours and 20 minutes
b. 3 hours and 40 minutes d. 4 hours and 40 minutes
- _____ 10. Find the elapsed time from 10:24 A.M. to 3:43 P.M.
- a. 5 hours and 41 minutes c. 4 hours and 41 minutes
b. 5 hours and 19 minutes d. 4 hours and 19 minutes

Name: _____

ID: A

- ____ 11. The science class will watch a movie that is 31 minutes long. The clock below shows the starting time. What time will the movie be over?



- a. 2:31 b. 2:22 c. 2:39 d. 2:29
- ____ 12. LeBron's party lasted from 1:40 P.M. to 3:30 P.M. How long did the party last?
- a. 2 hours and 50 minutes c. 1 hour and 50 minutes
- b. 2 hours and 10 minutes d. 1 hour and 10 minutes
- ____ 13. The table shows how long some early space flights lasted.

EARLY HUMAN SPACE FLIGHT

Date	Astronaut or Cosmonaut	Length of Flight	Importance
April 12, 1961	Yuri Gagarin	1 hr 48 min.	1st human orbit
May 5, 1961	Alan Shepard, Jr.	15 min.	1st American in space
Feb. 20, 1962	John Glenn, Jr.	4 hr 55 min.	1st American orbit

If Alan Shepard's spaceship was launched at 8:55 A.M., what time did the flight end?

- a. 8:10 b. 9:07 c. 9:10 d. 8:07

Name: _____

ID: A

____ 20. Use the October calendar.

OCTOBER						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

You have a clarinet recital the third Thursday of each month. What is the date of your recital in October?

- a. October 17th
- b. October 18th
- c. October 19th
- d. October 24th

____ 21. Use the October calendar.

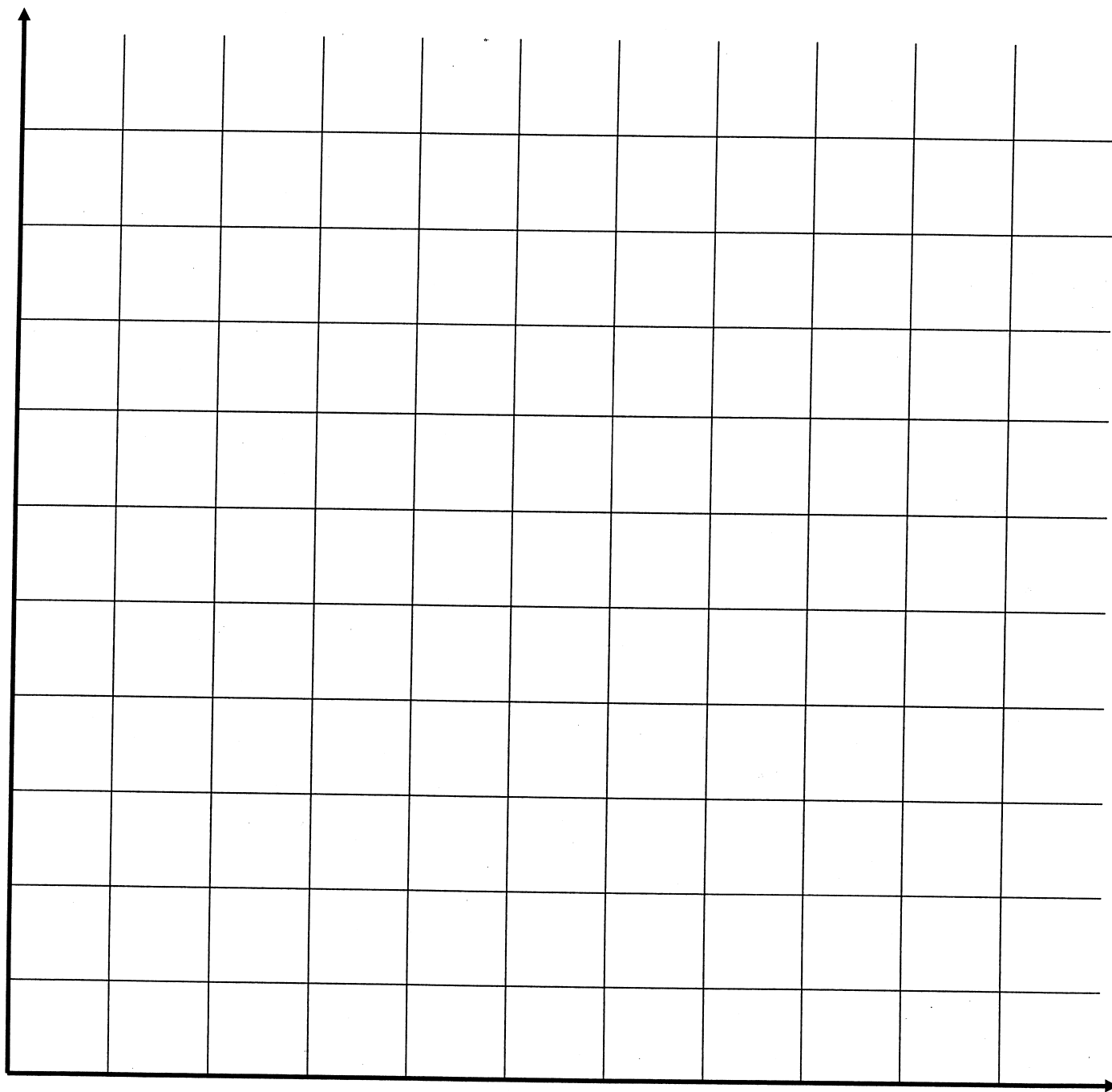
OCTOBER						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Mr. Kim has a train ticket for October 13th? Which day of the week is his trip?

- a. Tuesday
- b. Saturday
- c. Sunday
- d. Monday

____ 22. It is September 29th. Carly says her birthday is in 10 days. What is the date of Carly's birthday?

- a. October 9th
- b. September 10th
- c. September 30th
- d. October 10th














Name _____


Who Gets the Job?

E 4-6
DECISION MAKING











Mr. Capello is opening up a new banquet hall. He needs to hire some busboys to clear tables. He also needs to hire a set-up crew to move and arrange tables and chairs for different banquets. Before hiring, Mr. Capello tested each of their skills. The results are shown in the pictographs below.


**Number of Tables
Set Up in 15 Minutes**

Dan	    
Peter	 
Will	  
Sven	

Each  = 4 tables

**Amount of Time
to Clear One Table**

Dan	  
Peter	   
Will	 
Sven	

Each  = 1 minute

1. Which person should Mr. Capello immediately hire as a busboy? Why?





2. Which person would likely do a poor job as a busboy? Explain.


3. For which position would Mr. Capello most likely hire Dan? Why?

Pictographs

The pictograph shows the number of seats in four football stadiums.

Stadium Capacity Chart

Stadium	Number of Seats
Stadium A	
Stadium B	
Stadium C	
Stadium D	

 = 5,000 seats

1. How many seats are there in Stadium A?
- _____

2. How many more seats does Stadium A have than Stadium B?
- _____

3. How many more seats does Stadium C have than Stadium A?
- _____

4. Which stadium can seat the greatest amount of people?
- _____

5. How many more seats does the largest stadium have than the smallest stadium?
- _____

6. What is the combined number of seats of the two largest stadiums?
- _____

7. **Writing in Math** Explain what new symbol you would need to use in the pictograph if each football represented 10,000 seats.

Line Plots

How many soccer teams scored

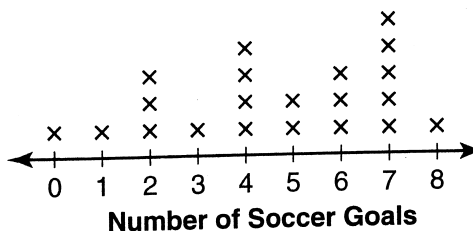
1. 5 goals?

2. 2 goals?

3. 3 goals?

4. **Number Sense** Suppose the line plot was made in the middle of the season. For the teams that have scored 7 goals, how many goals do you predict they will score at the end of the season? _____

5. Make a line plot of the grams of protein in the food listed.



Grams of Protein in One Serving

Food	Grams
Bacon	6
Black beans	15
Cheese pizza	15
Crabmeat	23
Fish stick	6
Great northern beans	14

Test Prep

Use the Soccer League line plot for 6 and 7.

6. How many teams are recorded on the line plot?

A. 18

B. 19

C. 20

D. 21

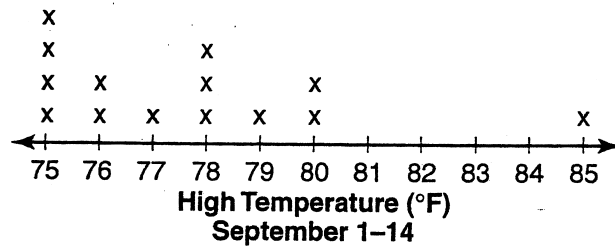
7. **Writing in Math** Is there an outlier in the data? Explain.

Name _____

Line Plots

PS 4-7

High Temperatures The line plot shows the high temperatures in the first 14 days of September.



1. How many days shown had a high temperature greater than 77°F ?

2. What was the most common high temperature in the first 14 days of September?

3. How many more days had a high temperature of 75° than 85° ?

4. Is there an outlier in the data set? If so, what is it?

5. **Writing in Math** After completing Exercise 1, how can you tell how many days had a temperature of 77°F or below without adding?

Name _____

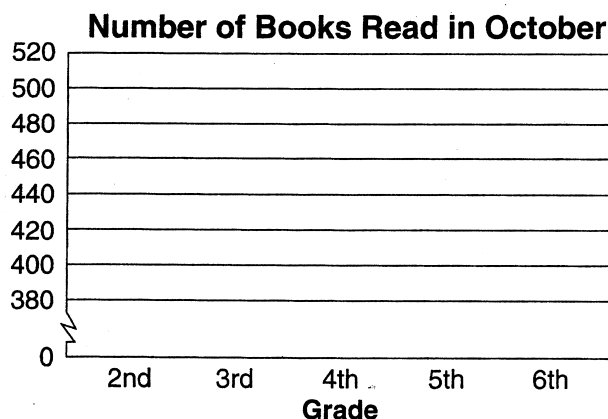
Graphing True or False

E 4-8
DATA

Washington Elementary School kept a record of the number of books read by each grade in October. Gwen is using the data in the table to make a bar graph. Tell whether each statement is *True* or *False*.

Grade	2nd	3rd	4th	5th	6th
Books Read	395	419	461	443	511

1. Gwen's graph will have 5 bars. _____
2. The bar for 3rd grade will be twice as tall as the bar for 2nd grade. _____
3. The bar for each grade will have a greater length than the bar for the grade before. _____
4. The 6th grade bar will have the greatest length. _____
5. The title of Gwen's graph should be "Number of Books Read in November." _____
6. A good scale for Gwen's graph is 20. _____
7. Complete the bar graph using the data in the table. _____



Name _____

Pictured Pairs

E 4-9
VISUAL THINKING

Draw a point for each ordered pair and label it.
Connect the points in letter order. Then connect
the last point to the first point.

1. A. (5, 9)

B. (7, 7)

C. (9, 5)

D. (7, 3)

E. (5, 1)

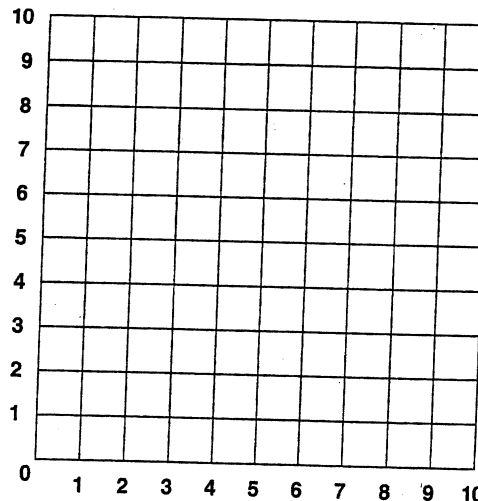
F. (5, 4)

G. (1, 4)

H. (1, 6)

I. (5, 6)

What is the picture? _____



2. A. (2, 2)

B. (1, 8)

C. (3, 5)

D. (4, 8)

E. (5, 5)

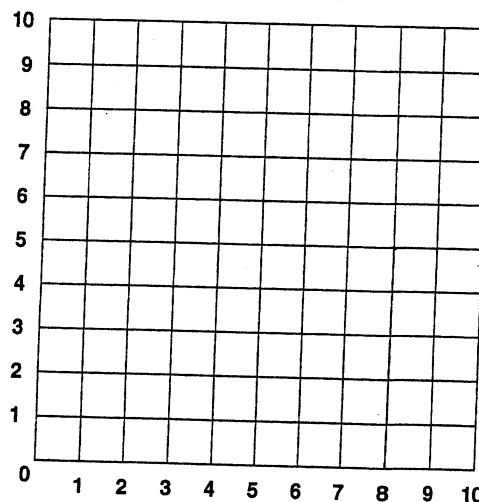
F. (6, 8)

G. (7, 5)

H. (9, 8)

I. (8, 2)

What is the picture? _____



Name _____

Line Graphs

P 4-10

In the Fourth-Grade Reading Program, how many pages were read in

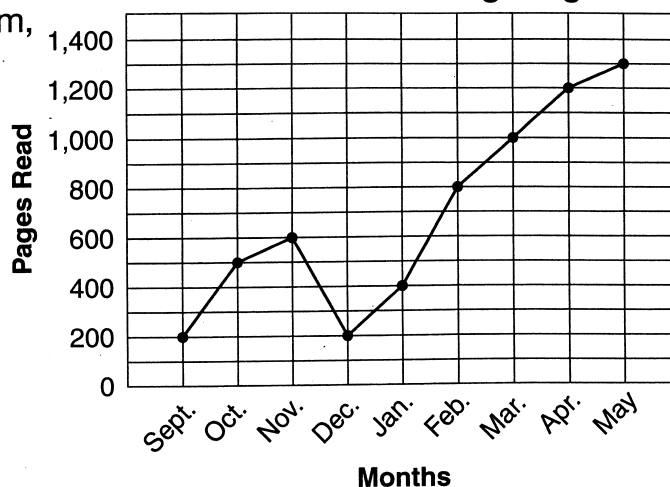
1. October?

2. February?

3. April?

4. Draw a line graph showing Barbara's exercise time.

Fourth-Grade Reading Program



Barbara's Exercise Times

Day	Length of Time
1	25 min
2	30 min
3	40 min

5. **Reasoning** What is the trend in the data?

Test Prep

6. What is an increase or decrease on a line graph called?

A. Trend

B. Median

C. Mode

D. Range

7. **Writing in Math** Explain how a line graph is similar to a bar graph.

Name _____

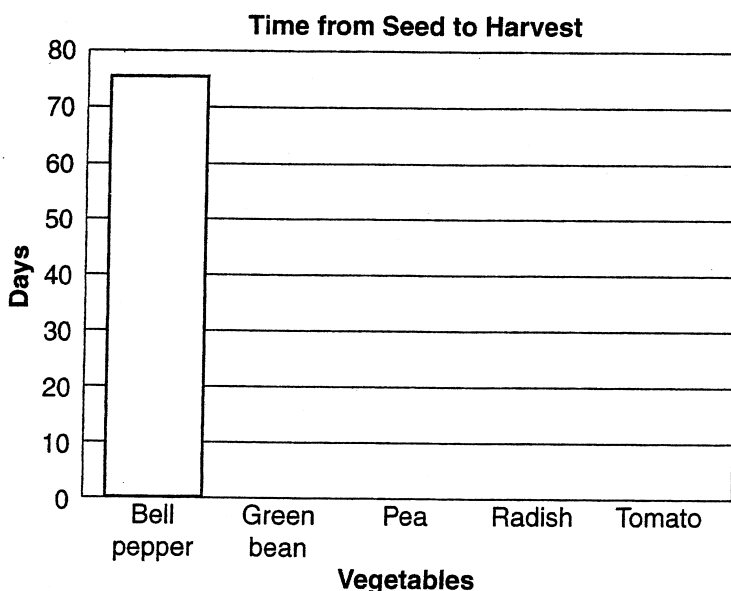
PROBLEM-SOLVING STRATEGY

P 4-11

Make a Graph

Complete the graph to solve each problem.

1.



Time from Seed to Harvest

Vegetable	Days
Bell pepper	75
Green bean	56
Pea	75
Radish	23
Tomato	73

2. Which vegetables take the greatest amount of time to harvest? How much greater is this number of days than the number of days needed to harvest radishes?

3. Which vegetable plant will be ready to harvest earlier, the bell pepper plant or the tomato plant? How many days earlier?

4. **Number Sense** Which vegetable plants will be ready to harvest within 5 days of the tomato plant?

5. Write the missing numbers.

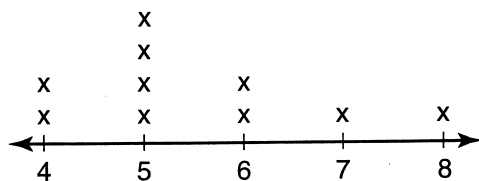
7, 10, 13, 16, _____, _____, _____

Name _____

Median, Mode, and Range

PS 4-12

Fishing The campers at Happy Hollow summer camp went fishing one afternoon. The line plot shows how many fish were caught by each of the 10 campers.



1. What is the range of the number of fish caught? _____
2. What is the median? _____
3. What is the mode? _____

Vertical Jump The chart shows the vertical jump of each student in a gym class.

Student	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Vertical Jump (in inches)	12	13	14	12	14	15	9	12	13	15	14	11	12	16

4. What is the range of the vertical jumps? _____
5. What is the median? _____
6. What is the mode? _____
7. **Writing in Math** If someone in the class jumped 20 in., would the range of the data change? Explain.

Name _____

Median, Mode, and Range

P 4-12

Find the median, mode, and range of each set of data.

1. 1, 3, 10, 8, 7, 3, 11

2. 48, 50, 62, 50, 54

3. 92, 99, 99, 106, 99, 97

4. 80, 85, 87, 80, 89

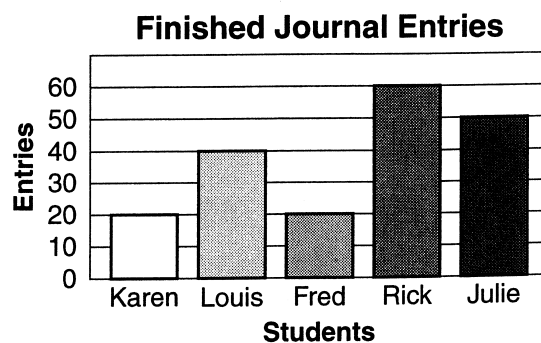
5. 10, 11, 12, 14, 10, 15, 16, 10, 11, 9, 10, 17, 10

6. 5, 15, 17, 5, 11, 5, 10, 12, 5, 7, 14, 9, 5

7. **Number Sense** Could 5 be the mode of 5, 9, 7, 5, 8, 7, 10, and 7? Explain.

Use the bar graph.

8. Find the median, mode, and range of the finished journal entries.



Test Prep

9. The range of 1, 3, 4, 6, 1, 3, 4, 2, 7, 4, 1, and 4 is

A. 5

B. 6

C. 7

D. 8

10. **Writing in Math** Tell when a set of data can have no mode.

Data from Surveys

Use the data in the tally chart.

1. How many people in the survey liked strawberry-flavored frozen yogurt best?
- _____

Favorite Frozen Yogurt	
Banana	
Blueberry	
Strawberry	
Vanilla	

2. Which flavor of frozen yogurt received the most votes?
- _____

3. How many people liked vanilla frozen yogurt best?
- _____

4. How many people were surveyed?
- _____

5. **Number Sense** Could the frozen yogurt survey help restaurants choose flavors of frozen yogurt? Explain.
- _____
- _____
- _____

Test Prep

6. Which is the last step in taking a survey?

A. explain the results

B. count tallies

C. write a survey question

D. make a tally chart and ask the question

7. **Writing in Math** Give an example of a topic for a survey question where the results for the answers could be similar.
- _____
- _____
- _____

Data from Surveys

PS 4-13

Juanita took a survey of her classmates to find their favorite subjects in school.

1. How many classmates chose science as their favorite subject?

2. According to Juanita's data, what was the least liked subject of her classmates? the most?

Favorite Subject

Math	
Science	I
English	II
Gym	

Caleb took a survey of what his classmates most liked to do on Saturday morning.

3. How many classmates liked to sleep late?

4. According to Caleb's data, what is his classmates' favorite Saturday morning activity? the least favorite?

5. **Writing in Math** Write down a topic that you would like to survey your classmates with. Why do you think it would be valuable to know?

Saturday Morning Activities

Sleep late	
Go out for breakfast	
Do homework	
Play sports	

The Newbery Medal

Since 1923, the Newbery Medal has been awarded by the American Library Association to authors of the most distinguished contributions to American literature for children. The award-winning books belong to a variety of genres that include biography, historical fiction, and science fiction.

Title and Author	Year	Chapters	Pages
<i>A Year Down Under</i> by Richard Peck	2001	8	130
<i>Maniac Magee</i> by Jerry Spinelli	1991	46	184
<i>Jacob Have I Loved</i> by Katherine Patterson	1981	20	215

The table above gives information about three Newbery Medal winners.

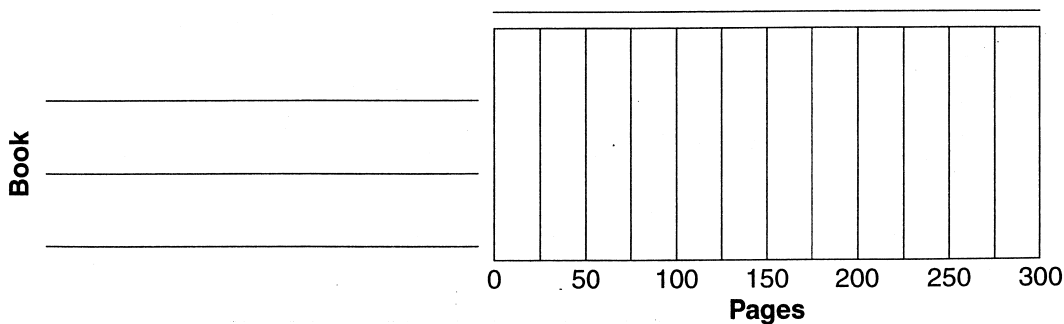
1. Complete the pictograph for the number of chapters in the three books.

Chapters in Three Newbery Medal Books

Book	Chapters
<i>A Year Down Under</i>	
<i>Maniac Magee</i>	

Each ■ = 2 chapters.

2. Complete the bar graph for the number of pages in each book.



















3. Describe the pattern you see between the years the medals were awarded.


Chapter 4B Review**Multiple Choice**

Identify the letter of the choice that best completes the statement or answers the question.

- _____ 1. Use the pictograph. How many more people chose gorillas as their favorite animal than chose elephants?




















FAVORITE ZOO ANIMAL


Animal	Votes
Elephant	  
Gorilla	    
Monkey	  
Seal	    

 = 10 votes

- a. 20 people b. 25 people c. 30 people d. 80 people
- _____ 2. Suppose you have a collection of postcards. The pictograph shows how many postcards you have from each country.

POSTCARD COLLECTION

Country	Number of Postcards
Vietnam	  
Ireland	      
Costa Rica	  
Senegal	     




















Each  = 4 postcards


How many more postcards do you have from Senegal than from Costa Rica?

- a. 24 postcards c. 8 postcards
b. 12 postcards d. 6 postcards

- _____ 3. Suppose you have a collection of postcards. The pictograph shows how many postcards you have from each country.

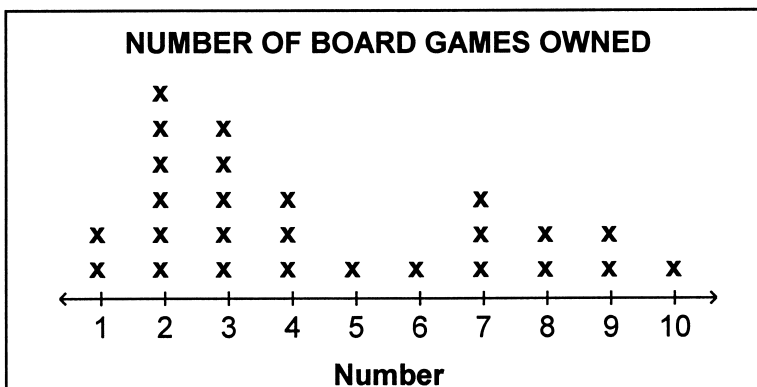
POSTCARD COLLECTION

Country	Number of Postcards
Vietnam	  
Ireland	      
Costa Rica	  
Senegal	     

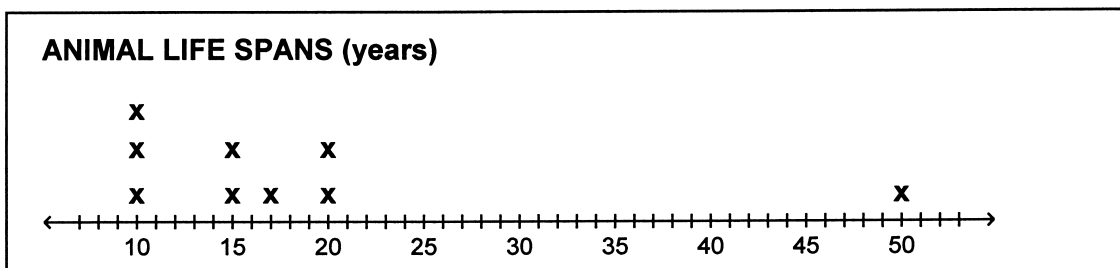
Each  = 4 postcards

If you add 12 postcards from Japan to your collection, how many postcard symbols should you draw on the pictograph?

- a. 3 postcards
b. 48 postcards
c. 4 postcards
d. 12 postcards
- _____ 4. Use the line plot. How many people own 7 board games?

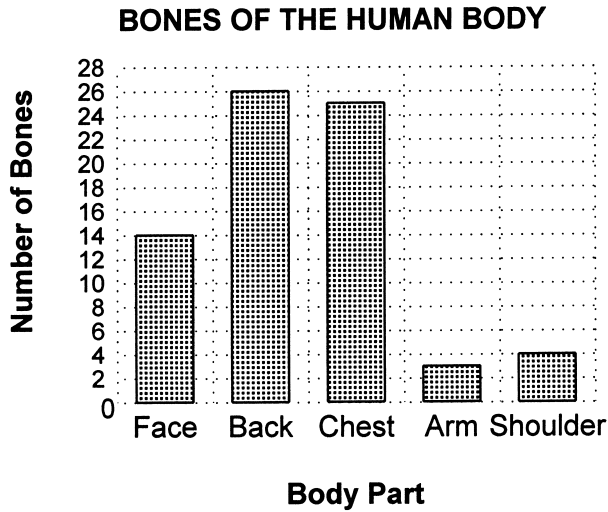


- a. 3 people
b. 1 person
c. 4 people
d. 6 people
- _____ 5. Look at the line plot of animal life spans. Identify the outlier in the data set.

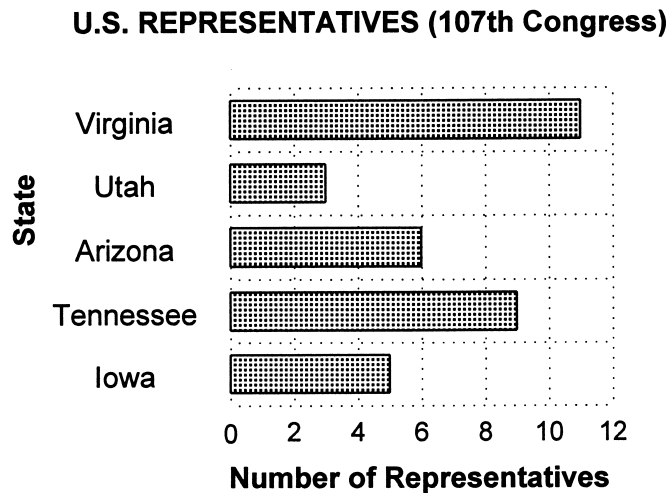


- a. 15 years
b. 20 years
c. 10 years
d. 50 years

- _____ 6. The bar graph above shows the number of bones in various parts of the body. How many more bones are in the back than in the arm?

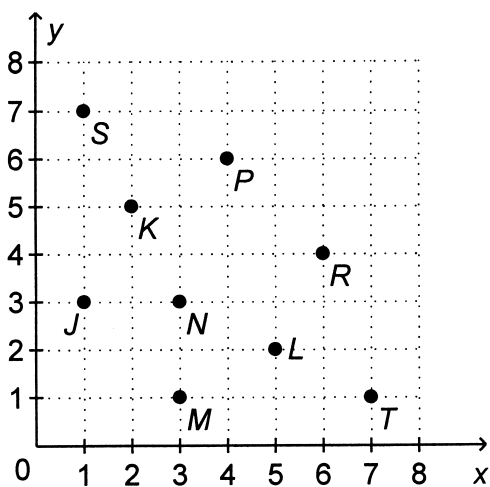


- a. 21 more bones c. 23 more bones
b. 22 more bones d. 24 more bones
- _____ 7. Use the bar graph. How many more Representatives does Virginia have than Utah?

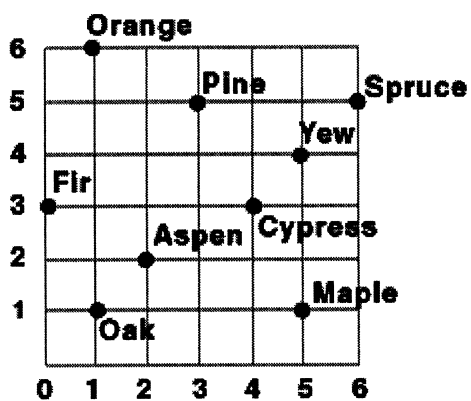


- a. 7 more b. 8 more c. 9 more d. 11 more

- _____ 8. Use the coordinate grid. Give the letter of the point named by the ordered pair (1, 7).

COORDINATE GRID

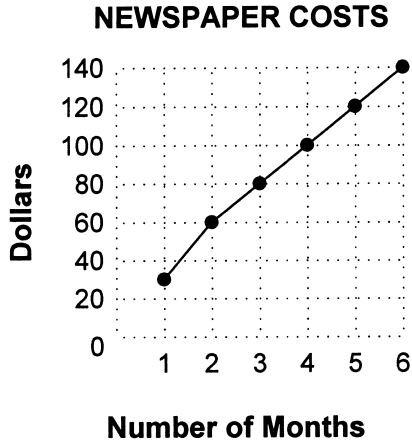
- _____ 9. Ashley made a coordinate grid of trees in her school yard.
- a. *T* b. *J* c. *L* d. *S*

TREE MAP

Name the ordered pair for the Oak tree.

- a. (1, 2) b. (0, 1) c. (1, 0) d. (1, 1)

- _____ 10. Here is a graph of costs to get one town's daily newspaper.



Does the cost of a newspaper increase more between 1 month and 2 months or between 5 months and 6 months?

- 1 month and 2 months
 - 5 months and 6 months
 - The cost does not increase at all.
 - The cost increases the same between any two months.
- _____ 11. Sap from maple trees is used to make maple syrup. Halima made a table to show the number of gallons of sap collected during a week in March.

**SAP COLLECTED FOR
MAPLE SYRUP**

Day	Gallons
Monday	50
Tuesday	60
Wednesday	80
Thursday	90
Friday	30

During which two days did the amount of sap collected increase the most? (Hint: Make a pictograph.)

- Between Tuesday and Wednesday
- Between Monday and Tuesday
- Between Wednesday and Thursday
- Between Thursday and Friday

- _____ 12. What is the mode for the set of data?

DATA SET

60, 65, 66, 57, 54, 59, 65

- a. 12 b. 59 c. 60 d. 65
- _____ 13. What is the range for the set of data?

DATA SET

49, 54, 55, 46, 43, 48, 54

- a. 12 b. 49 c. 54 d. 55
- _____ 14. What is the median of the test scores in the table?

Test Scores

90	93	81
88	84	85
94	80	90

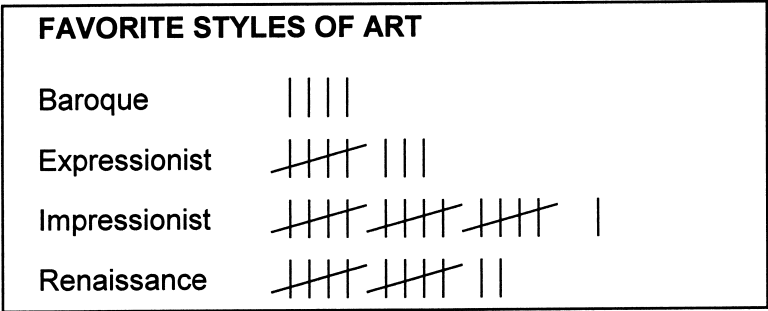
- a. 80 b. 88 c. 90 d. 94
- _____ 15. What is the mode of the test scores in the table?

Test Scores

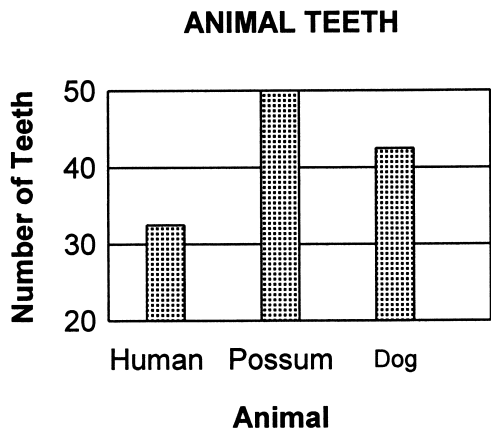
82	85	73
80	76	77
86	72	82

- a. 72 b. 80 c. 82 d. 86
- _____ 16. What survey question would you use if you wanted to know what time students go to bed on school nights?
- a. What time do you go to bed on school nights?
- b. What is your favorite sport?
- c. How many hours a day do you sleep?
- d. Do you like to play computer games?

17. Some fourth graders went to the art museum on a field trip. When they returned, they took a survey of their favorite styles of art. The results are in the tally chart.



- How many students in the survey liked Expressionist art best?
- a. 7 students b. 8 students c. 9 students d. 10 students
18. Look at the misleading bar graph. Which number completes a TRUE statement about the graph?



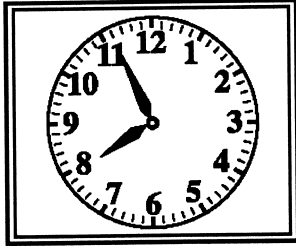
- A human has about 30 teeth, and a possum has about ? teeth.
- a. 20 b. 30 c. 50 d. 60

Name: _____

ID: A

Other

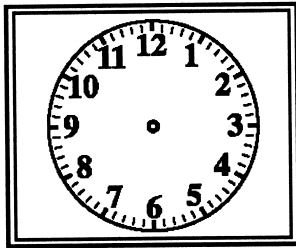
19. The clock shows the time that Amy was born. Complete the two ways to tell the time.



___ minutes after ___

___ minutes to ___

Amy's twin brother was born 19 minutes later. Draw the hands on a clock to show when her brother was born. Write the time.



Time _____

20. Use the data in the table to create a bar graph. Remember to include the title, labels, and a reasonable scale.

ANIMALS SEEN ON SAFARI TRIP

Animals	Number Seen
Buffalo	13
Lion	2
Zebra	5
Elephant	6

